IFSC CORR0000056

MODIFIED ESTIMATE

Name of Work : IMPROVEMENTS TO ROADS AND DRAINS AT KA[illegible]RAYANAGARANAGARA IN WARD NO.14, BAGALAGUNTE, DASARAHALLI-SUB-DIVISION SL. NO. 07, G.O. NO. 89

DASARAHALLI DIVISION | T DASARAHALLI SUB DIVISION

Estimate Cost:-99.00 Lakhs, **JOB CODE: 014-20-000017**

Head of Account:- P-3727 SC-SP/TSP MAUKYAMANTRIGALA NAVA BENGALURU

Agency:-KRIDL, BANGALORE.

Agreement No:- : EE/DD/AGR/412/2019-20 Date-01-10-2019

BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
1	3	4	5	6	7	8	9	10	11	12	13
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.										
	DISMANTLING OF DRAIN SLAB										
		1	1	75.00	0.90	0.10	6.750				
					Total Qty		6.750	6.750	Cum	413.40	2790.00
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.										
	EXCAVATION FOR KERB										
	ROAD-1-BS	2	1	60.00	0.20	0.10	2.400				
		2	1	41.00	0.20	0.10	1.640				
	-ROAD-2-LS	1	1	121.00	0.20	0.10	2.420				
	ROAD-2-RS	1	1	41.00	0.20	0.10	0.820				
		1	1	151.00	0.20	0.10	3.020				
	ROAD-3 BS	2	1	49.00	0.20	0.10	1.960				
	ROAD 4 START POINT	1	1	6.70	0.20	0.10	0.134				
	ROAD-7 LS	1	1	28.70	0.20	0.10	0.574				
	ROAD-7 RS	1	1	34.00	0.20	0.10	0.680				
	ROAD-8 RS	1	1	48.00	0.20	0.10	0.960				
	ROAD-8 LS	1	1	38.00	0.20	0.10	0.760				
	ROAD-9-LS	1	1	47.00	0.20	0.10	0.940				
	DESILTING OF CULVERT										
		1	1	6.50	1.20	0.45	3.510				
	DESILTING OF DRAIN										
	ROAD-2 LS	1	1	121.00	0.60	0.50	36.300				
	ROAD-2 RS	1	1	151.00	0.60	0.50	45.300				
	ROAD-3-BS	2	1	49.00	0.60	0.50	29.400				
	EXCAVATION FOR NEW DRAIN										
	ROAD-3-BS	1	1	49.00	0.90	0.90	39.690				
	ROAD-7 LS	1	1	28.70	0.90	0.90	23.247				
	ROAD-7 RS	1	1	34.00	0.90	0.90	27.540				
	ROAD-8 RS	1	1	48.00	0.90	0.90	38.880				
	ROAD-8 LS	1	1	3.00	0.90	0.90	2.430				
	RWH										
		11	1	0.31	1.80		6.138				

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Description Of item of work	Nos	Measurements				Sub Qty	Total Qty	Unit	Rate	Amount
		Length	Breath		Depth					
3	4	5	6	7	8	9	10	11	12	13
			Total Qty			268.743	268.743	Cum	137.80	37033.00
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1. 00 km and complete as per specifications. MORTH Specification No.301. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.										
ROAD-10BWSSB CUT PORTION	1	34.00	1.50 + 1.50 / 2		0.275	14.025				
	1	32.00	1.50 + 1.50 / 2		0.275	13.200				
	1	30.00	1.50 + 1.50 / 2		0.275	12.375				
	1	30.00	1.50 + 1.50 / 2		0.275	12.375				
	1	30.00	1.50 + 1.50 / 2		0.275	12.375				
	1	35.00	1.50 + 1.50 / 2		0.275	14.438				
	1	42.00	1.50 + 1.50 / 2		0.275	17.325				
	1	20.00	1.50 + 1.50 / 2		0.275	8.250				
NEW ROAD FORMATION										
ROAD-4	1	30.00	5.45 + 5.20 / 2		0.375	59.906				
	1	14.00	5.20 + 4.90 / 2		0.375	26.513				
DEDUCTION DUE TO (	-1	1.20	6.00 + 6.00 / 2		0.375	-2.700				
ROAD-5	1	30.00	4.50 + 4.40 / 2		0.375	50.063				
	1	30.00	4.40 + 4.15 / 2		0.375	48.094				
	1	15.00	4.15 + 4.50 / 2		0.375	24.328				
ROAD-8	1	26.00	6.60 + 6.40 / 2		0.375	63.375				
	1	12.00	6.40 + 5.90 / 2		0.375	27.675				
	1	3.30	5.50 + 5.50 / 2		0.375	6.806				
ROAD-11	1	15.00	5.80 + 4.70 / 2		0.375	29.531				
	1	30.00	4.70 + 4.50 / 2		0.375	51.750				
	1	30.00	4.50 + 4.15 / 2		0.375	48.656				
	1	30.00	4.15 + 4.60 / 2		0.375	49.219				
	1	30.00	4.60 + 3.80 / 2		0.375	47.250				
EDUCTION DUE TO (	-1	1.20	5.00 + 5.00 / 2		0.375	-2.250				
		otal Qty(UPTO 125% OF TQ=125%*612.33=765.412CUM					632.578	632.578	Cum	43.46	27491

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Description Of item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
3	4	5	6	7	8	9	10	11	12	13
KSRB 4-1.7: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per										
EXCAVATION FOR KERB										
ROAD-1-BS	2	1	60.00	0.20	0.10	2.400				
	2	1	41.00	0.20	0.10	1.640				
ROAD-2-LS	1	1	121.00	0.20	0.10	2.420				
ROAD-2-RS	1	1	151.00	0.20	0.10	3.020				
ROAD-3 BS	2	1	49.00	0.20	0.10	1.960				
ROAD 4 START POINT	1	1	6.70	0.20	0.10	0.134				
ROAD-7 LS	1	1	28.70	0.20	0.10	0.574				
ROAD-7 RS	1	1	34.00	0.20	0.10	0.680				
ROAD-8 RS	1	1	48.00	0.20	0.10	0.960				
ROAD-8 LS	1	1	38.00	0.20	0.10	0.760				
ROAD-9-LS	1	1	47.00	0.20	0.10	0.940				
EXCAVATION FOR NEW DRAIN										
ROAD-3-BS	2	1	49.00	0.90	0.15	13.230				
ROAD-7 LS	1	1	28.70	0.90	0.15	3.875				
ROAD-7 RS	1	1	34.00	0.90	0.20	6.120				
ROAD-8 RS	1	1	48.00	0.90	0.15	6.480				
Total Qty(UPTO 125% OF TQ=125%*44.28=55.35CUM)						45.193	45.193	Cum	5714.97	258273.78
5 KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height.										
CC DRAIN-RAFT										
ROAD-3-BS	2	1	49.00	0.90	0.15	13.230				
ROAD-7 LS	1	1	28.70	0.90	0.15	3.875				
ROAD-7 RS	1	1	34.00	0.90	0.15	4.590				
ROAD-8 RS	1	1	48.00	0.90	0.15	6.480				
CC DRAIN-SIDE WALLS										
ROAD-3-BS	2	2	49.00	0.60	0.15	17.640				
ROAD-7 LS	1	2	28.70	0.60	0.15	5.166				
ROAD-7 RS	1	2	34.00	0.60	0.15	6.120				
ROAD-8 RS	1	2	48.00	0.60	0.15	8.640				
Total Qty						65.741				
Limiting Total Qty(UPTO 125% OF TQ=125%*50.40=63.00CUM)						63.000	63.000	Cum	5775.37	363848.31
KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 (Pno218/28.8.2)										

PARTICULARS	NO	LENGTH	CONSTANT	QTY
ROAD-3-BS				
VERTICAL U BAR	820	2.11	0.620	#######
STRAIGHT BAR	28	49.00	0.390	535.080
ROAD-7 LS				
VERTICAL U BAR	192	2.11	0.620	251.174
STRAIGHT BAR	14	28.70	0.390	156.702
ROAD-7 RS				

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No	Description Of item of work	Nos		Measurements Length	Breath		Depth	Sub Qty	Total Qty	Unit	Rate	Amount
3		4	5	6	7		8	9	10	11	12	13
	VERTICAL U BAR			227	2.11	0.620	296.961					
	STRAIGHT BAR			14	34.00	0.390	185.640					
	ROAD-8 RS											
	VERTICAL U BAR			320	2.11	0.620	418.624					
	STRAIGHT BAR			14	48.00	0.390	262.080					
	TOTAL QTY IN KGS						########					
	TOTAL QTY IN TONNES						3.179					
	TOTAL QTY IN TONNES						3.179	3.179	3.179	TONNE	72326.98	229926.44
7	Removing and resetting of footpath slab. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.											
	DRAIN											
	ROAD-2-LS	1	1	121.00	0.90			108.900				
	ROAD-2-RS	1	1	151.00	0.90			135.900				
	ROAD-10-RS	1	1	10.00	0.90			9.000				
				Total Qty				253.800	253.800	Sqm	208.82	52998.52
8	KSRB 15.2.2 : Providing ruled pointing 20 mm deep to stone slab with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing complete as per specifications. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site											
	CC DRAIN											
	ROAD-2-LS	1	1	80.00	0.90			72.000				
				Total Qty				72.000	72.000	Sqm	49.06	3532.32
9	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc. and complete as per the directions of Enginner in charges											
	CC DRAIN-RAFT											
	ROAD-2-BS	2	1	14.00	0.90			25.200				
	ROAD-3-BS	2	1	49.00	0.90			88.200				
	ROAD-7 LS	1	1	28.70	0.90			25.830				
	ROAD-7 RS	1	1	34.00	0.90			30.600				
	ROAD-8 RS	1	1	48.00	0.90			43.200				
				Total Qty				213.030	213.030	Sqm	1615.00	344043.45
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.											
	ROAD-1	1	30.00	4.80	+	4.30	0.150	20.475				
				2								
		1	30.00	4.30	+	3.55	0.150	17.663				
				2								
		1	41.00	3.55	+	3.80	0.150	22.601				
				2								
	ROAD-12	1	10.80	4.50	+	4.90	0.150	7.614				
				2								
	ROAD-13	1	30.00	3.00	+	3.10	0.150	13.725				
				2								
		1	10.00	3.10	+	3.00	0.150	4.575				
				2								

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Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit	Rate	Amount
			Length	Breath		Depth					
3	4	5	6	7		8	9	10	11	12	13
			Total Qty				86.653	86.653	Cum	952.94	82574.87
KSRRB 300-48. Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in											
ROAD FORMATION											
ROAD-1	1	30.00	4.80	+	4.30		136.500				
			2								
	1	30.00	4.30	+	3.55		117.750				
			2								
	1	41.00	3.55	+	3.80		150.675				
			2								
ROAD-12	1	10.80	4.50	+	4.90		50.760				
			2								
ROAD-13	1	30.00	3.00	+	3.10		91.500				
			2								
	1	10.00	3.10	+	3.00		30.500				
			2								
			Total Qty				577.685	577.685	Sqm	25.44	14696.31
KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in											
ROAD FORMATION											
ROAD-1	1	30.00	4.80	+	4.30		136.500				
			2								
	1	30.00	4.30	+	3.55		117.750				
			2								
	1	41.00	3.55	+	3.80		150.675				
			2								
ROAD-12	1	10.80	4.50	+	4.90		50.760				
			2								
ROAD-13	1	30.00	3.00	+	3.10		91.500				
			2								
	1	10.00	3.10	+	3.00		30.500				
			2								
			Total Qty				577.685	577.685	Cum	6.36	3674.08
Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by otavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site											
NEW ROAD FORMATION											
ROAD-4	1	30.00	5.45	+	5.20	0.150	23.963				
			2								
	1	14.00	5.20	+	4.90	0.150	10.605				
			2								
DUCTION DUE TO (	-1	1.20	6.00	+	6.00	0.150	-1.080				
			2								
ROAD-5	1	30.00	4.50	+	4.40	0.150	20.025				
			2								
	1	30.00	4.40	+	4.15	0.150	19.238				
			2								
	1	15.00	4.15	+	4.50	0.150	9.731				
			2								
ROAD-8	1	26.00	6.60	+	6.40	0.150	25.350				

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Description Of item of work	Nos	Measurements: Length	Breath			Depth	Sub Qty	Total Qty	Unit	Rate	Amount
3	4 5	6	7			8	9	10	11	12	13
				2							
	1	12.00	6.40	+	5.90	0.150	11.070				
				2							
	1	3.30	5.50	+	5.50	0.150	2.723				
				2							
ROAD-11	1	15.00	5.80	+	4.70	0.150	11.813				
				2							
	1	30.00	4.70	+	4.50	0.150	20.700				
				2							
	1	30.00	4.50	+	4.15	0.150	19.463				
				2							
	1	30.00	4.15	+	4.60	0.150	19.688				
				2							
Total Qty(UPTO 125% OF TQ=125%*159.90=198.75CUM)							193.286	193.286	Cum	1855.00	358545.99
KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.												
CC ROAD											
ROAD-1	1	30.00	4.80	+	4.30	0.120	16.380				
				2							
	1	30.00	4.30	+	3.55	0.120	14.130				
				2							
	1	41.00	3.55	+	3.80	0.150	22.601				
				2							
ROAD-12	1	10.80	4.50	+	4.90	0.100	5.076				
				2							
ROAD-13	1	30.00	3.00	+	3.10	0.120	10.980				
				2							
	1	16.00	3.10	+	3.00	0.100	4.880				
				2							
		Total Qty					74.047	74.047	Cum	3944.51	292080.12
KSRRB M400-17. Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.											
NEW ROAD FORMATION											
ROAD-4	1	30.00	5.45	+	5.20	0.225	35.944				
				2							
	1	14.00	5.20	+	4.90	0.225	15.908				
				2							
DEDUCTION DUE TO (	-1	1.20	6.00	+	6.00	0.225	-1.620				
				2							
ROAD-5	1	30.00	4.50	+	4.40	0.225	30.038				
				2							
	1	30.00	4.40	+	4.15	0.225	28.856				
				2							

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No	Description Of item of work	Nos	Measurements Length	Breath			Depth	Sub Qty	Total Qty	Unit	Rate	Amount
1	2	3	4	5	6	7		8	9	10	11	12	13
		1	15.00	4.15	+	4.50	0.225	14.597				
					2							
	ROAD-8	1	26.00	6.60	+	6.40	0.225	38.025				
					2							
		1	12.00	6.40	+	5.90	0.225	16.605				
					2							
		1	3.30	5.50	+	5.50	0.225	4.084				
					2							
	ROAD-11	1	15.00	5.80	+	4.70	0.225	17.719				
					2							
		1	30.00	4.70	+	4.50	0.225	31.050				
					2							
		1	30.00	4.50	+	4.15	0.225	29.194				
					2							
		1	30.00	4.15	+	4.60	0.300	39.375				
					2							
	ROAD-10BWSSB CUT PORTION	1	34.00	1.50	+	1.50	0.300	15.300				
					2							
		1	32.00	1.50	+	1.50	0.300	14.400				
					2							
		1	30.00	1.50	+	1.50	0.300	13.500				
					2							
		1	30.00	1.50	+	1.50	0.300	13.500				
					2							
		1	30.00	1.50	+	1.50	0.300	13.500				
					2							
		1	35.00	1.50	+	1.50	0.300	15.750				
					2							
		1	42.00	1.50	+	1.50	0.300	18.900				
					2							
		1	20.00	1.50	+	1.50	0.300	9.000				
					2							
	CC ROAD											
	ROAD-1	1	30.00	4.80	+	4.30	0.100	13.650				
					2							
		1	30.00	4.30	+	3.55	0.100	11.775				
					2							
		1	41.00	3.55	+	3.80	0.100	15.068				
					2							
	ROAD-12	1	10.80	4.50	+	4.90	0.100	5.076				
					2							
	ROAD-13	1	30.00	3.00	+	3.10	0.100	9.150				
					2							
		1	10.00	3.10	+	3.00	0.100	3.050				
					2							
	Total Qty(UPTO 125% OF TQ=125%*468.78=585.975CUM)							471.392	471.392	Cum	2001.28	943386.63

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Description Of Item of work	Nos	Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
1	4 5	6	7	8	9	10	11	12	13
Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
CC ROAD									
ROAD-1	1	30.00	4.80 + 4.30 / 2		0.160	21.840			
	1	30.00	4.30 + 3.55 / 2		0.160	18.840			
	1	41.00	3.55 + 3.80 / 2		0.160	24.108			
ROAD-12	1	10.80	4.50 + 4.90 / 2		0.160	8.122			
ROAD-13	1	30.00	3.00 + 3.10 / 2		0.160	14.640			
	1	10.00	3.10 + 3.00 / 2		0.160	4.880			
Total Qty					92.430	92.430	**Cum**	5354.02	494869.93
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision									
ROAD-10	1	30.00	7.00 + 6.20 / 2			198.000			
	1	30.00	6.20 + 6.20 / 2			186.000			
	1	30.00	6.20 + 7.00 / 2			198.000			
	1	30.00	7.00 + 6.90 / 2			208.500			
	1	30.00	6.90 + 6.90 / 2			207.000			
	1	30.00	6.90 + 5.10 / 2			180.000			
BWSSB CUT PORTION	1	34.00	5.10 + 5.20 / 2			175.100			
	1	32.00	5.20 + 4.70 / 2			158.400			
	1	30.00	4.70 + 5.80 / 2			157.500			
	1	30.00	5.80 + 5.10 / 2			163.500			
	1	30.00	5.10 + 4.00 / 2			136.500			
	1	35.00	4.00 + 4.80 / 2			154.000			
	1	42.00	4.80 + 5.20			210.000			

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Description Of Item of work	Nos	Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
1	4 5	6	7	8	9	10	11	12	13
	1	20.00	5.20 + 5.60 / 2		108.000				
ROAD-10	1	30.00	7.00 + 6.20 / 2		198.000				
	1	30.00	6.20 + 6.20 / 2		186.000				
	1	30.00	6.20 + 7.00 / 2		198.000				
	1	30.00	7.00 + 6.90 / 2		208.500				
	1	30.00	6.90 + 6.90 / 2		207.000				
	1	30.00	6.90 + 5.10 / 2		180.000				
Total Qty					3618.000	3618.000	Sqm	5.30	19175.40
KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
ROAD-10	1	30.00	7.00 + 6.20 / 2		198.000				
	1	30.00	6.20 + 6.20 / 2		186.000				
	1	30.00	6.20 + 7.00 / 2		198.000				
	1	30.00	7.00 + 6.90 / 2		208.500				
	1	30.00	6.90 + 6.90 / 2		207.000				
	1	30.00	6.90 + 5.10 / 2		180.000				
ROAD-10BWSSB CUT PORTION	1	34.00	1.50 + 1.50 / 2		51.000				
	1	32.00	1.50 + 1.50 / 2		48.000				
	1	30.00	1.50 + 1.50 / 2		45.000				
	1	30.00	1.50 + 1.50 / 2		45.000				
	1	30.00	1.50 + 1.50 / 2		45.000				
	1	35.00	1.50 + 1.50 / 2		52.500				
	1	42.00	1.50 + 1.50 / 2		63.000				
	1	20.00	1.50 + 1.50 / 2		30.000				
NEW ROAD FORMATION									
ROAD-4	1	30.00	5.45 + 5.20 / 2		159.750				
	1	14.00	5.20 + 4.90 / 2		70.700				
DEDUCTION DUE TO C	-1	1.20	6.00 + 6.00 / 2		-7.200				

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Description Of Item of work	Nos	Measurements: Length	Breath			Depth	Sub Qty	Total Qty	Unit	Rate	Amount
3	4 5	6	7			8	9	10	11	12	13
ROAD-5	1	30.00	4.50	+	4.40		133.500				
			2								
	1	30.00	4.40	+	4.15		128.250				
			2								
	1	15.00	4.15	+	4.50		64.875				
			2								
ROAD-8	1	26.00	6.60	+	6.40		169.000				
			2								
	1	12.00	6.40	+	5.90		73.800				
			2								
	1	3.30	5.50	+	5.50		18.150				
			2								
ROAD-11	1	15.00	5.80	+	4.70		78.750				
			2								
	1	30.00	4.70	+	4.50		138.000				
			2								
	1	30.00	4.50	+	4.15		129.750				
			2								
	1	30.00	4.15	+	4.60		131.250				
			2								
		Total Qty					2845.575				
		Limiting Total Qty(UPTO 125% OF TQ=125%*1839.00=2298.75SQM)					2298.750	2298.750	SQM	33.92	77973.60
RRB 500-9. Providing and applying tack coat using 80/100 grade bitumen (VG10) on granular base ch as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with ray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of achineries complete as per specifications. Clause 503 of MORTH V revision. All lead and lift complete per specification and as per the directon of the engineer in charge of the site											
ROAD-10	1	30.00	7.00	+	6.20		198.000				
			2								
	1	30.00	6.20	+	6.20		186.000				
			2								
	1	30.00	6.20	+	7.00		198.000				
			2								
	1	30.00	7.00	+	6.90		208.500				
			2								
	1	30.00	6.90	+	6.90		207.000				
			2								
	1	30.00	6.90	+	5.10		180.000				
			2								
AD-10BWSSB UT PORTION	1	34.00	1.50	+	1.50		51.000				
			2								
	1	32.00	1.50	+	1.50		48.000				
			2								
	1	30.00	1.50	+	1.50		45.000				
			2								
	1	30.00	1.50	+	1.50		45.000				
			2								
	1	30.00	1.50	+	1.50		45.000				
			2								
	1	35.00	1.50	+	1.50		52.500				
			2								
	1	42.00	1.50	+	1.50		63.000				
			2								
	1	20.00	1.50	+	1.50		30.000				
			2								

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Description Of Item of work	Nos	Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
3	4 5	6	7	8	9	10	11	12	13
NEW ROAD FORMATION									
ROAD-4	1	30.00	5.45 + 5.20 / 2		159.750				
	1	14.00	5.20 + 4.90 / 2		70.700				
DUCTION DUE TO C	-1	1.20	6.00 + 6.00 / 2		-7.200				
ROAD-5	1	30.00	4.50 + 4.40 / 2		133.500				
	1	30.00	4.40 + 4.15 / 2		128.250				
	1	15.00	4.15 + 4.50 / 2		64.875				
ROAD-8	1	26.00	6.60 + 6.40 / 2		169.000				
	1	12.00	6.40 + 5.90 / 2		73.800				
	1	3.30	5.50 + 5.50 / 2		18.150				
ROAD-11	1	15.00	5.80 + 4.70 / 2		78.750				
	1	30.00	4.70 + 4.50 / 2		138.000				
	1	30.00	4.50 + 4.15 / 2		129.750				
	1	30.00	4.15 + 4.60 / 2		131.250				
Total Qty					2845.575				
Limiting Total Qty(UPTO 125% OF TQ=125%*1839.00=2298.75SQM)					2298.750	2298.750	**Cum**	**21.20**	**48733.50**
20 KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision. All lead and lift complete as per specification and as per the direction of the engineer in charge of the site									
ROAD-10	1	30.00	7.00 + 6.20 / 2		198.000				
	1	30.00	6.20 + 6.20 / 2		186.000				
	1	30.00	6.20 + 7.00 / 2		198.000				
	1	30.00	7.00 + 6.90 / 2		208.500				
	1	30.00	6.90 + 6.90 / 2		207.000				
	1	30.00	6.90 + 5.10 / 2		180.000				
CUT ON	1	34.00	5.10 + 5.20 / 2		175.100				
	1	32.00	5.20 + 4.70 / 2		158.400				
	1	30.00	4.70 + 5.80 / 2		157.500				
	1	30.00	5.80 + 5.10 / 2		163.500				
	1	30.00	5.10 + 4.00		136.500				

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	Nos	Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
	4 | 5	6	7	8	9	10	11	12	13
	1	35.00	(4.00 + 4.80) / 2		154.000				
	1	42.00	(4.80 + 5.20) / 2		210.000				
	1	20.00	(5.20 + 5.60) / 2		108.000				
OAD FORMATION									
AD-4	1	30.00	(5.45 + 5.20) / 2		159.750				
	1	14.00	(5.20 + 4.90) / 2		70.700				
N DUE TO	-1	1.20	(6.00 + 6.00) / 2		-7.200				
AD-5	1	30.00	(4.50 + 4.40) / 2		133.500				
	1	30.00	(4.40 + 4.15) / 2		128.250				
	1	15.00	(4.15 + 4.50) / 2		64.875				
AD-5	1	26.00	(6.60 + 6.40) / 2		169.000				
	1	12.00	(6.40 + 5.90) / 2		73.800				
	1	3.30	(5.50 + 5.50) / 2		18.150				
AD-11	1	15.00	(5.80 + 4.70) / 2		78.750				
	1	30.00	(4.70 + 4.50) / 2		138.000				
	1	30.00	(4.50 + 4.15) / 2		129.750				
	1	30.00	(4.15 + 4.60) / 2		131.250				
FROM 2-7	1	37.40	(4.80 + 5.30) / 2		188.870				
	1	30.00	(5.30 + 4.45) / 2		146.250				
	1	30.00	(4.45 + 4.70) / 2		137.250				
	1	35.00	(4.70 + 4.50) / 2		161.000				
	1	23.00	(4.30 + 4.50) / 2		101.200				
	1	30.00	(4.50 + 5.00) / 2		142.500				
			Total Qty		4606.145	4606.145	Cum	12.72	58590.16

B M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of ified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix towork laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and em rollers to achieve the desired compaction in all respects complete as per specifications. Clause of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm 5 mm) with 4.5 % VG-30 Bitumen. All lead and lift complete as per specification and as per the ction of the engineer in charge of the site.

ROAD-10	1	30.00	(7.00 + 6.20) / 2		0.050	9.900				

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Description Of item of work	Nos	Length	Measurements Breath			Depth	Sub Qty	Total Qty	Unit	Rate	Amount
1	4 5	6	7			8	9	10	11	12	13
	1	30.00	6.20	+	6.20	0.050	9.300				
			2								
	1	30.00	6.20	+	7.00	0.050	9.900				
			2								
	1	30.00	7.00	+	6.90	0.050	10.425				
			2								
	1	30.00	6.90	+	6.90	0.050	10.350				
			2								
	1	30.00	6.90	+	5.10	0.050	9.000				
			2								
	1	34.00	5.10	+	5.20	0.050	8.755				
			2								
HW SSB CUT PORTION	1	32.00	5.20	+	4.70	0.050	7.920				
			2								
	1	30.00	4.70	+	5.80	0.050	7.875				
			2								
	1	30.00	5.80	+	5.10	0.050	8.175				
			2								
	1	30.00	5.10	+	4.00	0.050	6.825				
			2								
	1	35.00	4.00	+	4.80	0.050	7.700				
			2								
	1	42.00	4.80	+	5.20	0.050	10.500				
			2								
	1	20.00	5.20	+	5.60	0.050	5.400				
			2								
CW ROAD FORMATION											
ROAD-4	1	30.00	5.45	+	5.20	0.050	7.988				
			2								
	1	14.00	5.20	+	4.90	0.050	3.535				
			2								
CTION DUE TO (	-1	1.20	6.00	+	6.00	0.050	-0.360				
			2								
ROAD-5	1	30.00	4.50	+	4.40	0.050	6.675				
			2								
	1	30.00	4.40	+	4.15	0.050	6.413				
			2								
	1	15.00	4.15	+	4.50	0.050	3.244				
			2								
ROAD-8	1	26.00	6.60	+	6.40	0.050	8.450				
			2								
	1	12.00	6.40	+	5.90	0.050	3.690				
			2								
	1	3.30	5.50	+	5.50	0.050	0.908				
			2								
ROAD-11	1	15.00	5.80	+	4.70	0.050	3.938				
			2								
	1	30.00	4.70	+	4.50	0.050	6.900				
			2								
	1	30.00	4.50	+	4.15	0.050	6.488				
			2								
	1	30.00	4.15	+	4.60	0.050	6.563				
			2								
ROAD FROM 2-7	1	37.40	4.80	+	5.30	0.050	9.444				
			2								

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Description Of Work	Nos	Measurements Length	Breath			Depth	Sub Qty	Total Qty	Unit	Rate	Amount
	4 | 5	6	7			8	9	10	11	12	13
	1	30.00	5.30	+	4.45	0.050	7.313				
			2								
	1	30.00	4.45	+	4.70	0.050	6.863				
			2								
	1	35.00	4.70	+	4.50	0.050	8.050				
			2								
	1	23.00	4.30	+	4.50	0.050	5.060				
			2								
	1	30.00	4.50	+	5.00	0.050	7.125				
			2								
		Total Qty					230.307	230.307	Cum	7428.48	1710832.80
	1	30.00	7.00	+	6.20	0.040	7.920				
			2								
	1	30.00	6.20	+	6.20	0.040	7.440				
			2								
	1	30.00	6.20	+	7.00	0.040	7.920				
			2								
	1	30.00	7.00	+	6.90	0.040	8.340				
			2								
	1	30.00	6.90	+	6.90	0.040	8.280				
			2								
	1	30.00	6.90	+	5.10	0.040	7.200				
			2								
SSB CUT ORTION	1	34.00	5.10	+	5.20	0.040	7.004				
			2								
	1	32.00	5.20	+	4.70	0.040	6.336				
			2								
	1	30.00	4.70	+	5.80	0.040	6.300				
			2								
	1	30.00	5.80	+	5.10	0.040	6.540				
			2								
	1	30.00	5.10	+	4.00	0.040	5.460				
			2								
	1	35.00	4.00	+	4.80	0.040	6.160				
			2								
	1	42.00	4.80	+	5.20	0.040	8.400				
			2								
	1	20.00	5.20	+	5.60	0.040	4.320				
			2								
OAD FORMATION											
AD-4	1	30.00	5.45	+	5.20	0.040	6.390				
			2								
	1	14.00	5.20	+	4.90	0.040	2.828				
			2								

ing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of
ed grading, premixed with bituminous binder and filler, transporting the hot mix to work site,
with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled,
and tandem rollers to achieve the desired compaction in all respects complete as per
ions. Clause 507 of MORTH V revision as per IRC SP-53-2015. -do- using 40-60 TPH capacity
mech mechanical paver grading II(30-45mm) with 5.4% of modified bituminous binder consisting
w of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) All
and lift complete as per specification and as per the directon of the engineer in charge of the site.

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	Nos	Measurements: Length	Breath			Depth	Sub Qty	Total Qty	Unit	Rate	Amount
	4 5	6	7			8	9	10	11	12	13
	-1	1.20	6.00	+	6.00	0.040	-0.288				
				2							
	1	30.00	4.50	+	4.40	0.040	5.340				
				2							
	1	30.00	4.40	+	4.15	0.040	5.130				
				2							
	1	15.00	4.15	+	4.50	0.040	2.595				
				2							
	1	26.00	6.60	+	6.40	0.040	6.760				
				2							
	1	12.00	6.40	+	5.90	0.040	2.952				
				2							
	1	3.30	5.50	+	5.50	0.040	0.726				
				2							
	1	15.00	5.80	+	4.70	0.040	3.150				
				2							
	1	30.00	4.70	+	4.50	0.040	5.520				
				2							
	1	30.00	4.50	+	4.15	0.040	5.190				
				2							
	1	30.00	4.15	+	4.60	0.040	5.250				
				2							
	1	37.40	4.80	+	5.30	0.040	7.555				
				2							
	1	30.00	5.30	+	4.45	0.040	5.850				
				2							
	1	30.00	4.45	+	4.70	0.040	5.490				
				2							
	1	35.00	4.70	+	4.50	0.040	6.440				
				2							
	1	23.00	4.30	+	4.50	0.040	4.048				
				2							
	1	30.00	4.50	+	5.00	0.040	5.700				
				2							
Total Qty							184.246	184.246	Cum	8699.42	1602831.60

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Sl No	Description Of Item of work	Nos	Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit	Rate	Amount
	3	4 5	6	7	8	9	10	11	12	13
	KSRRB M-100-1 Loading and Unloading of Stone Boulder / Stone aggregate / Sand Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, running for return trip, excluding time for haulage and return trip complete as per specifications.MORTH -100 / Chapter 1, All lead and lift complete as per specification and as per the QTY VIDE I NO 1 , 10,11,23									
				Total Qty		6.750				
						6.750	6.750	Cum	57.00	384.75
	KSRRB M100-4.1. Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-I surface road . All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	QTY VIDE I NO 26+27									
				Total Qty		908.071				
						908.071	908.071	Cum	74.24	67415.20
	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site									
	RAIN WATER HARVESTING L=(3.142*0.63*0.63)/4=0.31									
	40 mm jelly	11	1	0.31	0.40	1.364		Cum	1901.00	2592.96
	20 mm jelly	11	1	0.31	0.40	1.364		Cum	1901.00	2592.96
	Course Sand	11	1	0.31	0.30	1.023		Cum	2651.00	2711.97
	Fine Sand	11	1	0.31	0.20	0.682		Cum	2651.00	1807.98
	12.5 mm chips	11	1	0.31	0.30	1.023		Cum	1901.00	1944.72
	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) All lead and lift complete as per specification and as									
	0.63 DIA HDPE PERFORATED PIPE									
		1	1	19.80		19.800				
					Total Qty	19.800	19.800	RMT	10822.32	214281.94
	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings									
	RAIN WATER HARVESTING L=(3.142*0.63*0.63)/4=0.31									
		11	1	0.31		3.410				
					Total Qty	3.410	3.410	Cum	71.03	242.21
					TOTAL AMOUNT OF WORKDONE OF RS					8437260.58
					ADD 4% KRIDCL CHARGES					337490.42
					SUB TOTAL OF RS					8774751.00
					ADD 12% GST OF RS					1052970.00
					QC, DPR AND MISC					1125248.00
					TOTAL (D)					9900000.00

Technically Sanctioned for Rs. 93.32 Lakhs/-
Engineer Incharge

RS. In words Eighty Three Lakhs Thirty Two thousand only

Under P-3727 [SP-SP/TSP]

Job Code No. 014-20-800-0-17

Registered as CE No. CE/D2/TS/03/2020-21

to conditions contained in Ensuing Year

No. CE/D2/TS/03/2020-21

AEJE. TA

25/11/2020

Assistant Engineer-14

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

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